

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: Vicki S. ELLIOTT et al

Title: CELL ADHESION AND EXTRACELLULAR
MATRIX PROTEINS

Appl. No.: 10/524,355

Filing Date: 07/12/2005

Examiner: Unassigned

Art Unit: Unassigned

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date Jan 9, 2006

By Michele M. Simkin

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Michele M. Simkin
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Registration No. 34,717

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known		
				Application Number		10/524,355
				Filing Date		07/12/2005
				First Named Inventor		Vicki S. Elliott
				Group Art Unit		Unassigned
				Examiner Name		Unassigned
Sheet 1 of 22				Attorney Docket Number		071949-9301

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A1	5,175,383		Leder et al.	December 29, 1992	
	A2	5,270,163		Gold et al.	December 14, 1993	
	A3	5,474,796		Brennan	December 12, 1995	
	A4	5,605,662		Heller et al.	February 25, 1997	
	A5	5,686,242		Bruice et al.	November 11, 1997	
	A6	5,707,618		Armentano et al.	January 13, 1998	
	A7	5,767,337		Roses et al.	June 16, 1998	
	A8	5,804,413		DeLuca	September 8, 1998	
	A9	5,807,522		Brown et al.	September 15, 1998	
	A10	5,837,458		Minshull et al.	November 17, 1998	
	A11	5,840,484		Seilhamer et al.	November 24, 1998	
	A12	5,910,434		Rigg et al.	June 8, 1999	
	A13	5,914,236		Monsma, Jr. et al.	June 22, 1999	
	A14	5,932,435		Atkins et al.	August 3, 1999	
	A15	5,997,848		Patton et al.	December 7, 1999	
	A16	6,022,691		Bruice et al.	February 8, 2000	
	A17	6,057,101		Nandabalan et al.	May 2, 2000	
	A18	6,372,724		Pelleg et al.	April 16, 2002	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
		B1	WO95/25116		CALIFORNIA INST OF TECHN (US)	1995-09-21		
		B2	WO95/35505		UNIV LELAND STANFORD JUNIOR (US)	1995-12-28		
		B3	WO84/03564		COMMW SERUM LAB COMMISSION (AU)	1984-09-13		

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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NON PATENT LITERATURE DOCUMENTS			
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	C1	Aberle, H. et al., "Cadherin-catenin complex: protein interactions and their implications for cadherin function," (1996) <u>J. Cell. Biochem.</u> 61:514-523," (1996) <u>J. Cell. Biochem.</u> 61:514-523	
	C2	Adam, M.A. and A.D. Miller, "Identification of a signal in a murine retrovirus that is sufficient for packaging of nonretroviral RNA into virions," (1988) <u>J. Virol.</u> 62:3802-3806	
	C3	Adams et al., "Activators of peroxisome proliferator-activated receptor gamma have depot-specific effects on human preadipocyte differentiation," (1997) <u>J. Clin. Invest.</u> 100:3149-3153	
	C4	Adams, J.C. et al., "The thrombospondin type 1 repeat (TSR) superfamily: diverse proteins with related roles in neuronal development," Tucker (2000) <u>Dev. Dyn.</u> 218:280-299	
	C5	Altschul, S.F. et al., "Basic local alignment search tool," (1990) <u>J. Mol. Biol.</u> 215:403-410	
	C6	Anderson, N.L. and J. Seilhamer, "A comparison of selected mRNA and protein abundances in human liver," (1997) <u>Electrophoresis</u> 18:533-537	
	C7	Antinozzi, P.A. et al., "Metabolic engineering with recombinant adenoviruses," (1999) <u>Annu. Rev. Nutr.</u> 19:511-544	
	C8	Armentano, D. et al., "Effect of internal viral sequences on the utility of retroviral vectors," (1987) <u>J. Virol.</u> 61:1647-1650	
	C9	Arndt, G.M. et al., "A rapid genetic screening system for identifying gene-specific suppression constructs for use in human cells," (2000) <u>Nucleic Acids Res.</u> 28:E15	
	C10	Ashkenazi, A. and V.M. Divit, "Apoptosis control by death and decoy receptors," (1999) <u>Curr. Opin. Cell Biol.</u> 11:255-260	
	C11	Auwerx, J., "PPAR γ , the ultimate thrifty gene," (1999) <u>Diabetologia</u> 42:1033-1049	

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	C12	Baltimore, D., "Intracellular Immunization," (1988) <u>Nature</u> 335:395-396	
	C13	Banerji, J. et al., "A gene pair from the human major histocompatibility complex encodes large praline-rich proteins with multiple repeated motifs and a single ubiquitin-like domain," (1990) <u>Proc. Natl. Acad. Sci. USA</u> 87:2374-2378	
	C14	Barroso et al., "Dominant negative mutations in human PPAR associated with severe insulin resistance, diabetes mellitus and hypertension," (1998) <u>Nature</u> 402:880-883	
	C15	Bauer, G. et al., "Inhibition of human immunodeficiency virus-1 (HIV-1) replication after transduction of granulocyte colony-stimulating factor-mobilized D34+cells from HIV-1-infected donors using retroviral vectors containing anti-HIV-1 genes," (1997) <u>Blood</u> 89:2259-2267	
	C16	Bender, M.A. et al., "Evidence that the packaging signal of Moloney murine leukemia virus extends into the gag region," (1987) <u>J. Virol.</u> 61:1639-1646	
	C17	Bitter, G.A. et al., "Expression and secretion vectors for yeast," (1987) <u>Methods Enzymol.</u> 153:516-544	
	C18	Blaese, R.M. et al., "T lymphocyte-directed gene therapy for ADA- SCID: initial trial results after 4 years," (1995) <u>Science</u> 270:475-480	
	C19	Blind, M. et al., "Cytoplasmic RNA modulators of an inside-out signal-transduction cascade," (1999) <u>Proc. Natl. Acad. Sci. USA</u> 96:3606-3610	
	C20	Boado, R.J. et al., "Drug delivery of antisense molecules to the brain for treatment of Alzheimer's disease and cerebral AIDS," (1998) <u>J. Pharm. Sci.</u> 87:1308-1315	
	C21	Bolton, A.E. and W.M. Hunter, "The labelling of proteins to high specific radioactivities by conjugation to a 125I-containing acylating agent," (1973) <u>Biochem. J.</u> 133:529-539	

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Sheet	4	of	22
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	C22	Bonyhadi, M.L., "RevM10-expressing T cells derived in vivo from transduced human hematopoietic stem-progenitor cells inhibit human immunodeficiency virus replication," (1997) <u>J. Virol.</u> 71:4707-4716	
	C23	Bordignon, C. et al., "Gene therapy in peripheral blood lymphocytes and bone marrow for ADA- immunodeficient patients," (1995) <u>Science</u> 270:470-475	
	C24	Boulay, J.-L. and H. Récipon, "Expression vectors and delivery systems," (1998) <u>Curr. Opin. Biotechnol.</u> 9:445-450	
	C25	Brenner, B. et al., "L-selectin regulates actinpolymerisation via activation of the small G-protein Rac2," (1997) <u>Biochem. Biophys. Res. Commun.</u> 231:802-807	
	C26	Brody, E.N. and L. Gold, "Aptamers as therapeutic and diagnosis agents," (2000) <u>J. Biotechnol.</u> 74:5-13	
	C27	Brogie, R. et al., "Light-regulated expression of a pea Ribulose-1,5-Bisphosphate Carboxylase small subunit gene in transformed plant cells," (1984) <u>Science</u> 224:838-843	
	C28	Brown, D.D. et al., "The thyroid hormone-induced tail resorption program during <i>Xenopus laevis</i> metamorphosis," (1996) <u>Proc. Natl. Acad. Sci. USA</u> 93:1924-1929	
	C29	Brummelkamp, T.R. et al., "A system for stable expression of short interfering RNAs in mammalian cells," (2002) <u>Science</u> 296:550-553	
	C30	Brummendorf et al., "Structure/function relationships of axon-associated adhesion receptors of the immunoglobulin superfamily," (1996) <u>Curr. Opin. Neurobiol.</u> 6:584-593	
	C31	Buller, R.M. et al., "Decreased virulence of recombinant Vaccinia virus expression vectors is associated with a thymidine kinase-negative phenotype," (1985) <u>Nature</u> 317:813-815	

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	C32	Burge, C. and S. Karlin, "Finding the genes in genomic DNA," (1997) <u>J. Mol. Biol.</u> 268:78-94	
	C33	Burge, C. and S. Karlin, "Prediction of complete gene structures in human genomic DNA," (1998) <u>Curr. Opin. Struct. Biol.</u> 8:346-354	
	C34	Burton, D.R., "A large array of human monoclonal antibodies to type 1 human immunodeficiency virus from combinatorial libraries of asymptomatic seropositive individuals," (1991) <u>Proc. Natl. Acad. Sci. USA</u> 88:10134-10137	
	C35	Capecchi, M.R., "Altering the genome by homologous recombination," (1989) <u>Science</u> 244:1288-1292	
	C36	Caruthers, M.H. et al., "New chemical methods for synthesis in polynucleotides," (1980) <u>Nucleic Acids Symp. Ser.</u> 7:215-223	
	C37	Cavazzana-Calvo, M. et al., "Gene therapy of human severe combined immunodeficiency (SCID)-X1 disease," (2000) <u>Science</u> 288:669-672	
	C38	Chang, C.-C. et al., "Evolution of a cytokine using DNA family shuffling," (1999) <u>Nat. Biotechnol.</u> 17:793-797	
	C39	Chen, L. et al., "Overexpression of matrix Gla protein mRNA in malignant human breast cells: isolation by differential cDNA hybridization," (1990) <u>Oncogene</u> 5:1391-1395	
	C40	Chicz, R.M. and F.Z. Regnier, "High-performance liquid chromatography: effective protein purification by various chromatographic modes," (1990) <u>Methods Enzymol.</u> 182:392-421	
	C41	Christians, F.C. et al., "Directed evolution of thymidine kinase for AZT phosphorylation using DNA family shuffling," (1999) <u>Nat. Biotechnol.</u> 17:259-264	
	C42	Chung, T.D., "Characterization of the role of IL-6 in the progression of prostate cancer," (1999) <u>Prostate</u> 15:199-207	

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	C43	Clarke, M.L. et al., "Comparative analysis of artificial antisense RNA regulation in fission yeast and human cells," (2000) <u>Biochem. Biophys. Res. Commun.</u> 268:8-13	
	C44	Colbere-Garapin, F. et al., "A new dominant hybrid selective marker for higher eukaryotic cells," (1981) <u>J. Mol. Biol.</u> 150:1-14	
	C45	Cole, S.P. et al., "Human monoclonal antibodies," (1984) <u>Mol. Cell Biol.</u> 62:109-120	
	C46	Colombatti, A. et al., "The superfamily of proteins with von Willebrand Factor type A-like domains: one theme common to components of extracellular matrix, hemostasis, cellular adhesion, and defense mechanisms," (1991) <u>Blood</u> 77:2305-2315	
	C47	Coruzzi, G. et al., "Tissue-specific and light-regulated expression of a pea nuclear gene encoding the small subunit of rebulose-1,5-bisphosphate carboxylase," (1984) <u>EMBO J.</u> 3:1671-1680	
	C48	Cote, R.J. et al., "Generation of human monoclonal antibodies reactive with cellular antigene," (1983) <u>Proc. Natl. Acad. Sci. USA</u> 80:2026-2030	
	C49	Cramer, A. et al., "Improved green fluorescent protein by molecular evolution using DNA shuffling," (1996) <u>Nat. Biotechnol.</u> 14:315-319	
	C50	Crystal, R.G. et al., "A Phase 1 study, in cystic fibrosis patients, of the safety, toxicity, and biological efficacy of a single administration of a replication deficient, recombinant adenovirus carrying the cDNA of the normal cystic fibrosis transmembrane conductance regulator gene in the lung," (1995) <u>Hum. Gene Therapy</u> 6:643-666	
	C51	Crystal, R.G. et al., "Evaluation of repeat administration of a replication deficient, recombinant adenovirus containing the normal cystic fibrosis transmembrane conductance regulator cDNA to the airways of individuals with cystic fibrosis," (1995) <u>Hum. Gene Therapy</u> 6:667-703	
	C52	Crystal, R.G., "Transfer of genes to humans: Early lessons and obstacles to success," (1995) <u>Science</u> 270:404-410	

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	C53	Csete, M.E. et al., "Efficient gene transfer to pancreatic islets mediated by adenoviral vectors," (1995) <u>Transplantation</u> 27:263-268	
	C54	Cunningham, B.C. and J.A. Wells, "Rational design of receptor-specific variants of human growth hormone," (1991) <u>Proc. Natl. Acad. Sci. USA</u> 88:3407-3411	
	C55	Davis, C.G., "The many faces of epidermal growth factor repeats," (1990) <u>New Biol.</u> 5:410-419	
	C56	de la Fuente, M.A. et al., "CD84 leukocyte antigen is a new member of the Ig superfamily," (1997) <u>Blood</u> 90:2398-2405	
	C57	Deak, F. et al., "Primary structure and expression of Matrilin-2, the closest relative of cartilage matrix protein within the von Willebrand factor Type A-like module superfamily," (1997) <u>J. Biol. Chem.</u> 272:9268-9274	
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	C62	Duplaa, C. et al., "Quantitative analysis of polymerase chain reaction products using biotinylated dUTP incorporation," (1993) <u>Anal. Biochem.</u> 212:229-236	
	C63	Eddy, S.R., "Hidden markov models," (1996) <u>Curr. Opin. Struct. Biol.</u> 6:361-365	

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		First Named Inventor	Vicki S. Elliott
		Group Art Unit	Unassigned
		Examiner Name	Unassigned
Sheet	8	of	22
		Attorney Docket Number	071949-9301

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	C64	Elbashir, S.M. et al., "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells," (2001) <u>Nature</u> 411:494-498	
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	C73	Garoff, H. et al., "Recent advances in gene expression using alphavirus vectors," (1998) <u>Curr. Opin. Biotechnol.</u> 9:464-469	
	C74	Gary, S.C. et al., "BEHAB/brevican: a brain-specific lectican implicated in gliomas and glial cell motility," (1998) <u>Curr. Opin. Neurobiol.</u> 8:576-581	

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	C75	Gatti, R.A. et al., "Localization of an ataxia-telangiectasia gene to chromosome," (1988) <u>Nature</u> 336:577-580	
	C76	Goins, W.F. et al., "Herpes simplex virus type 1 vector-mediated expression of nerve growth factor protects dorsal root ganglion neurons from peroxide toxicity," (1999; <u>J. Virol.</u> 73:519-532	
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	C78	Goldman, C.K. et al., "In vitro and in vivo gene delivery mediated by a synthetic polycationic amino polymer," (1997) <u>Nat. Biotechnol.</u> 15:462-466	
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	C83	Gu, K. et al., "Human dentin phosphophoryn nucleotide and amino acid sequence," (1998) <u>Eur. J. Oral Sci.</u> 106:1043-1047	
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	C85	Hadari, Y.R. et al., "Galectin-8; A new rat lectin, related to galectin-4," (1995) <u>J. Biol. Chem.</u> 270:3447-3453	
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	C87	Hanks, S.K. et al., "Signaling through focal adhesion kinase," (1997) <u>BioEssays</u> 19:137-145	
	C88	Harrington, J.J. et al., "Formation of de novo centromere and construction of first-generation human artificial microchromosomes," (1997) <u>Nat. Genet.</u> 15:345-355	
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	C97	Huse, W.D. et al., "Generation of a large combinatorial library of the immunoglobulin repertoire in Phage Lambda," (1989) <u>Science</u> 246:1275-1281	

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	C98	Ivics, Z., "Molecular reconstruction of sleeping beauty, a Tc1-like transposon from fish, and its transposition in human cells," (1997) <u>Cell</u> 91:501-510	
	C99	Khazaie, K. et al., "EGF receptor in neoplasia and metastasis," (1993) <u>Cancer and Metastasis Rev.</u> 12:255-274	
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	C107	Lagerstrom, M. et al., "Capture PCR: efficient amplification of DNA fragments adjacent to a known sequence in human and YAC DNA," (1991) <u>PCR Methods Applic.</u> 1:111-119	
	C108	Lander, E.S. and D. Botstein, "Strategies for studying heterogeneous genetic traits in humans by using a linkage map of restriction fragment length polymorphisms," (1986) <u>Proc. Natl. Acad. Sci. USA</u> 83:7353-7357	

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	C110	Lee, J.-O. et al., "Crystal structure of the A domain from the a subunit of integrin CR3 (CD11 b/CD18)," (1995) <u>Cell</u> 80:631-638	
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				First Named Inventor	Vicki S. Elliott
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	15	of	22	Attorney Docket Number	071949-9301

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	C143	Neumann, E. et al., "Gene transfer into mouse lyoma cells by electroporation in high electric fields," (1982) <u>EMBO J.</u> 1:841-845		
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	C153	Petersen et al., "Gene therapy expression profiling of advanced lung cancer," (2000) <u>Int J. Cancer</u> , 86:512-517		
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	C209	Wigler, M. et al., "Transfer of purified herpes virus thymidine kinase gene to cultured mouse cells," (1977) <u>Cell</u> 11:223-232	
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	C214	Wistuba, I.I. et al., "Comparison of features of human breast cancer cell lines and their corresponding tumors," (1998) <u>Clin. Cancer Res.</u> 4:2931-2938	
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Examiner Signature		Date Considered	
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		Application Number	10/524,355		
		Filing Date	07/12/2005		
		First Named Inventor	Vicki S. Elliott		
		Group Art Unit	Unassigned		
		Examiner Name	Unassigned		
Sheet	22	of	22	Attorney Docket Number	071949-9301

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	C217	Yao, I. et al., "Synamon, a Novel Neuronal Protein Interacting with Synapse-associated Protein 90/Postsynaptic Density-95-associated Protein," (1999) <u>J. Biol. Chem.</u> 274: 27463-27466	
	C218	Yu, M. et al., "A hairpin ribozyme inhibits expression of diverse strains of human immunodeficiency virus Type 1," (1993) <u>Proc. Natl. Acad. Sci. USA</u> 90:6340-6344	
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